



montena
montena emc sa

Test laboratory accredited according to ISO 17025 by the Swiss Accreditation Service SAS
Laboratoire d'essai accrédité selon ISO 17025 par le Service d'accréditation suisse SAS
Prüflabor akkreditiert nach ISO 17025 durch die Schweizerische Akkreditierungsstelle SAS

Registration number
Numéro d'accréditation
Akkreditierungsnummer

STS 024

Schweizerischer Prüfstellendienst
Service suisse d'essai
Swiss testing service



Report: Rapport: Bericht:	Electromagnetic compatibility		Report no: Rapport no: Bericht Nr:	14'681
Product name: Nom du produit: Produktname	Profilo		Mandate no: Mandat no: Auftrag Nr:	20067095
Serial no: No de série: Seriennummer:	Neck loop: Proto02_Nokia In ear receiver: Proto03	Model number: Numéro de modèle: Modellnummer:	Profilo	
Customer: Client: Kunde:	Phonak Communications AG Länggasse 17 CH-3280 MURTEN	Date of test: Date de l'essai: Prüfdatum:	August 2 and 3, 2006	

Standards / Normes / Normen	Result Résultat Ergebnis
CFR 47, Part 15, Subpart B, Unintentional radiator, Paragraph 109	pass
CFR 47, Part 15, Subpart C, Intentional radiator, Paragraph 209	pass

Test performed by
Essai effectué par :
Prüfer

Mr A. Trabold

A. Trabold

Test report prepared by
Rapport d'essai préparé par :
Berichtersteller

Mr A. Trabold

Test report controlled and approved by
Rapport d'essai contrôlé et approuvé par :
Prüfbericht kontrolliert und genehmigt durch

Mr E. Staub

E. Staub

Rossens, March 15, 2007

(Issue Date / Date d'édition / Ausstelldatum)

V2006Jul24

Main language / Langue principale / Hauptsprache : **english** / français / deutsch

The present document results from tests on a specimen and does not prejudice to the conformity of all the manufactured products. - Le présent document résulte d'essais sur un spécimen. Il ne préjuge pas de la conformité de l'ensemble des produits fabriqués à l'objet essayé. - Dieser Bericht beinhaltet die Prüfergebnisse eines Mustergerätes. Es kann daraus nicht auf die Übereinstimmung der Seriegeräte mit dem Mustergerät geschlossen werden.

q:\mandats\20067095_phonak_communications_profilo\20067095_phonak_14681_profilo_fcc.doc

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1. Summary of test results / Résumé des résultats d'essais / Zusammenfassung der Prüfergebnisse

✓ Pass / Réussi / Bestanden

✗ Fail / Echoué / Nicht bestanden

Ø Not applicable to this product / Pas applicable à ce produit / Nicht anwendbar für dieses Produkt

— Not tested / Pas testé / Nicht geprüft

■ No requirements / Pas d'exigence / Keine Anforderung

Neck Loop :

6	Emission / Emission / Störaussendung	
6.1	Radiated emission – H-field Émission par rayonnement – Champ H CFR 47 § 15.209 Gestahlte Emission – H-Feld	✓
6.2	Radiated emission – EM-field Émission par rayonnement – Champ EM CFR 47 § 15.209 Gestahlte Emission – EM-Feld	✓

In Ear Receiver:

§	Test Type / Type d'essai / Art der Prüfung	Result / Résultat / Ergebnis
6	Emission / Emission / Störaussendung	
6.2	Radiated emission – EM-field Émission par rayonnement – Champ EM CFR 47 § 15.109 Gestahlte Emission – EM-Feld	✓

2. Applied standards / Normes appliquées / Verwendete Normen

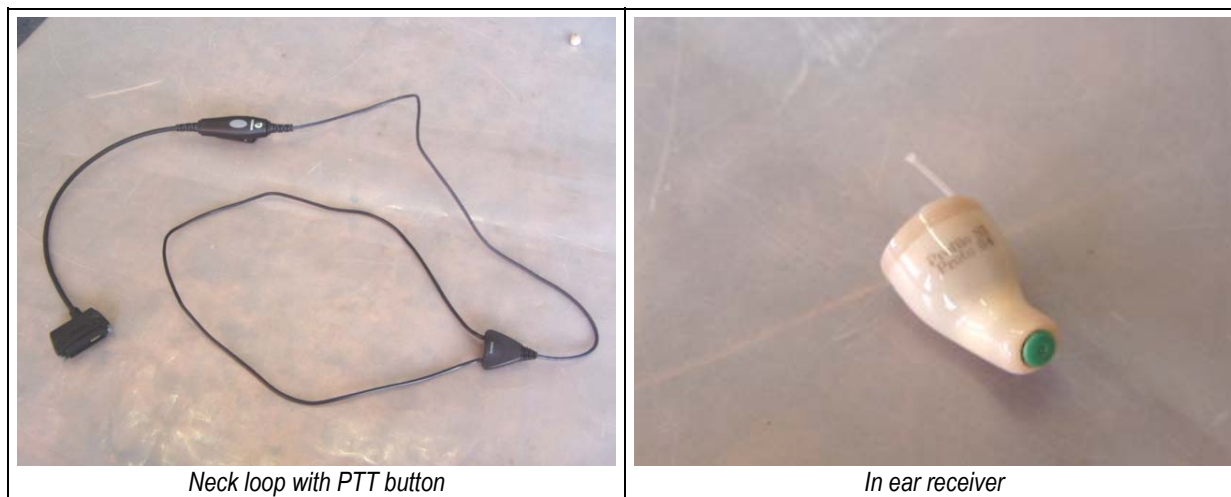
47 CFR Part 15 Subpart B	Code of Federal Regulations - Telecommunication, FCC Part 15, Subpart B: "Unintentional Radiators"
47 CFR Part 15 Subpart C	Code of Federal Regulations - Telecommunication, FCC Part 15, Subpart C: "Intentional Radiators"

3. Client / Client / Kunde

Client name and address Nom et adresse du client Name und Adresse des Kunden	<i>Phonak Communications AG Länggasse 17 CH-3280 MURTEN</i>
Contact Person / Responsable / Kontaktperson	<i>Mr F. Marquis</i>
Telephone / Téléphone / Telefon	<i>+41 26 672 96 42</i>
Fax / Télécopieur / Telefax	<i>+41 26 672 93 80</i>
E-mail / Courrier électronique / E-mail	<i>francois.marquis@phonak.ch</i>
Mandate no / No. de mandat / Auftragsnr.	<i>20067095</i>

4. Equipment under test / Equipement à l'essai / Prüfling**4.1 Identification / Identification / Identifikation**

Manufacturer name and address Nom et adresse du fabricant Name und Adresse des Herstellers	<i>Phonak Communications AG Länggasse 17 CH-3280 MURTEN</i>
Production country / Pays de fabrication / Ursprungsland	<i>Switzerland</i>
Brand name / nom de marque / Verkaufsmarke	<i>Phonak</i>
Product name / Nom du produit / Produktname	<i>Profilo</i>
Product description / Description du produit / Produktbeschreibung	<i>Very short distance wireless audio link to ear with Push To Talk (PTT) button.</i>
Model number / Numéro de modèle / Modellnummer	<i>Profilo</i>
Serial no / No. de série / Seriennummer	<i>Neck loop: Proto02_Nokia In ear receiver: Proto03</i>
Software version / Version du logiciel / Softwareversion	<i>Profilo_Standard.ipfg</i>
Highest frequency / Fréquence la plus élevée / Höchste Frequenz	<i>6 MHz</i>
Supply / Alimentation / Speisung	<i>Receiver: Zinc Air Battery, U = 1.4V Transmitter: RF Unit's Battery, U = 5.0V typical</i>
Technical documentation Documentation technique Technische Dokumentation	<i>None. The equipment is completely identified by its serial no. according to ISO 9001.</i>

4.2 Pictures of the EUT / Photos de l'EST / Fotos des Prüflings**4.3 Classification / Classification / Klassierung**

FCC 47 CFR Part 15 :

- Intentional Radiator (Subpart C)

4.4 Ports / Accès / Anschlüsse

Port / Accès / Anschluss	Cable / Câble / Kabel			Remark / Remarque / Bemerkung
	Max. length / Longueur max. / Max. Länge	Type / Type / Typ	Screen / Blindage / Schirm	
Neck loop:				
RF Communication Set	0.5 m	5-core	Yes	connected to RF Communication Set
In ear receiver:				
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4.5 Modifications / Modifications / Angebrachte Änderungen

None

5. Test conditions / Conditions d'essai / Testbedingungen**5.1 Climatic conditions / conditions climatiques / klimatische Bedingungen**

Temperature / Température / Temperatur:	24 - 28	°C
Pressure / Pression / Druck:	1005 - 1019	hPa
Relative humidity / Humidité relative / Relative Luftfeuchtigkeit:	45 - 48	%

5.2 Location and Date / Lieu et date / Ort und Datum

Test period / Date des essais / Datum der Prüfungen:	August 2 and 3, 2006
Location / Lieu / Ort:	montena emc sa route de Montena 75 CH-1728 Rossens

5.3 Test facility and Methodology

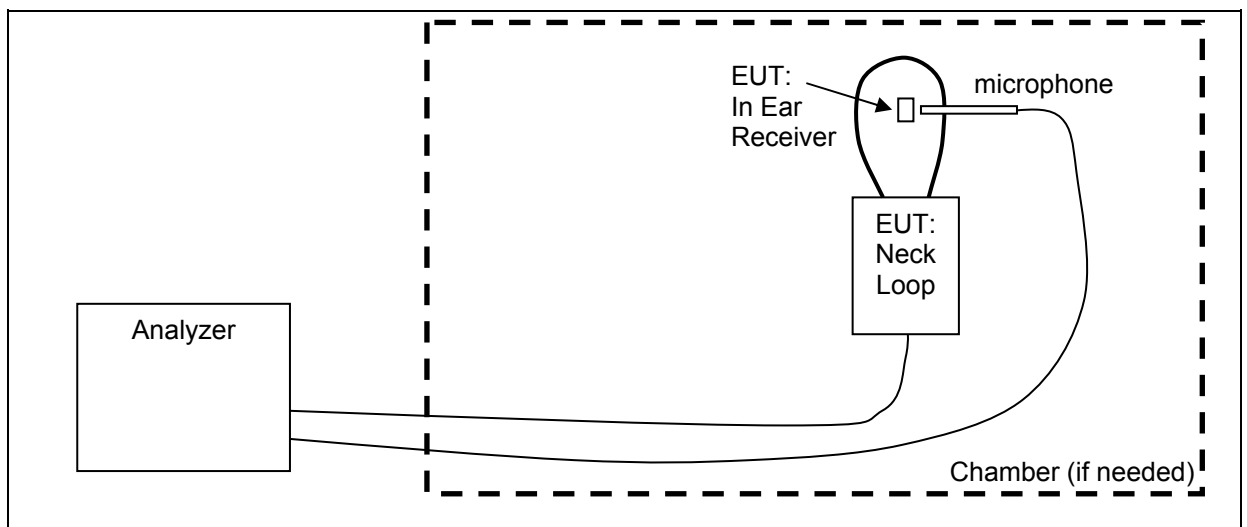
The alternate test site (ferrite chamber) is accepted by FCC (Reg. No. 0009508433).
Conducted and radiated measurements are performed according to the ANSI C63.4 (2003) procedure.

5.4 Persons present / Personnes présentes / Anwesende Personen**Test Engineer(s) / Ingénieur(s) d'essai / Prüfsingenieur(e) :**

Mr A. Trabold

Other(s) / Autre(s) / Andere :

Name / Nom / Name	Company / Société / Firma
Mr F. Marquis	Phonak Communications AG
Mr Y. Trisconi	Phonak Communications AG

5.5 Test configuration / Configuration d'essai / Prüfkonfiguration**5.6 Operating conditions / Conditions de fonctionnement / Betriebszustand**

Transmission (neck loop) and reception (in ear receiver).

5.7 Auxiliary equipment / Matériel auxiliaire / Zusatzgeräte

The following pieces of equipment are used for the monitoring of the EUT or are necessary for the EUT but they are not tested with the EUT / Les équipements suivants servent à la surveillance de l'EST ou sont indispensables au fonctionnement de celui-ci mais ne font pas partie de l'essai / Folgende Geräte werden für die Überwachung des Prüflings gebraucht oder sind notwendig für die korrekte Funktion. Sie gehören jedoch nicht zum Prüfling.

Product / Produit / Produkt	Brand / Marque / Marke	Model No.	ID	Remark / Remarque / Bemerkung
Audio Analyzer	HP	8920A	3352U01402	Phonak
Junction Box	Phonak	---	---	Phonak
Microphone	Brüel & Kjaer	2642 971737		Phonak
Mic-Power Supply	Phonak	Prototyp 7.91	G91001	Phonak
Battery	SAT AG	Lithium polymer 3.7V / 420mAh	---	Phonak



Audio Analyzer



Microphone with Mic-Power Supply



Battery

6. Emission tests

6.1 Radiated emission - Magnetic field

Test site: ☐ anechoic chamber (ferrites) ☐ open test site
☒ anechoic chamber (foam) ☐

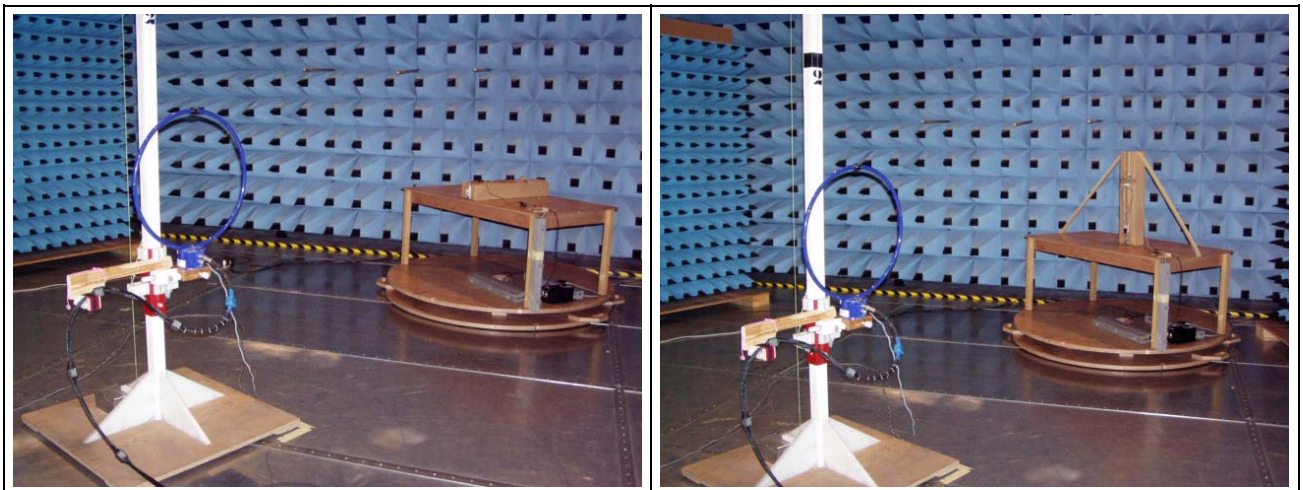
Meas. distance: ☒ 3 m ☐ 10 m ☐ 30 m ☐ m

Meas. uncertainty: ± 2.8 dB (10 m)

Position of EUT: 0.8 m (height above floor of equipment under test)

Measuring method: The magnetic disturbance radiated by the equipment under test is measured using a spectrum analyser and a wide band magnetic antenna. The center of the antenna is placed at 1 m of height, first in the direction of the apparatus under test, then at 90° to the apparatus and if required also horizontally. If possible the turning table is operated through 360° during the measurement. The recording is carried out taking into account the maximum value of the disturbance appearing during the functioning of the apparatus under test. The peak values are recorded continuously on a graph. The values exceeding the limits are remeasured using a measuring receiver.

Test set-up:



Remarks:

- The limit does not apply to the intentional signal at 375 kHz.
- Limit values expressed in dB μ A/m (factor used = 377Ω = -51.5 dB = free-space wave impedance) and transformed to a measuring distance of 3m (factor used = 40 dB/decade) if necessary
e.g.: for $f = 9\text{kHz}$ the limit is 2400/9 μ V/m at 300 m;
 $20 \log_{10} (2400/9\mu\text{V/m}) - 20 \log_{10} (377 \Omega) + 40 \log_{10} (300\text{m}/3\text{m}) = 77 \text{ dB}\mu\text{A/m at } 3\text{m}$

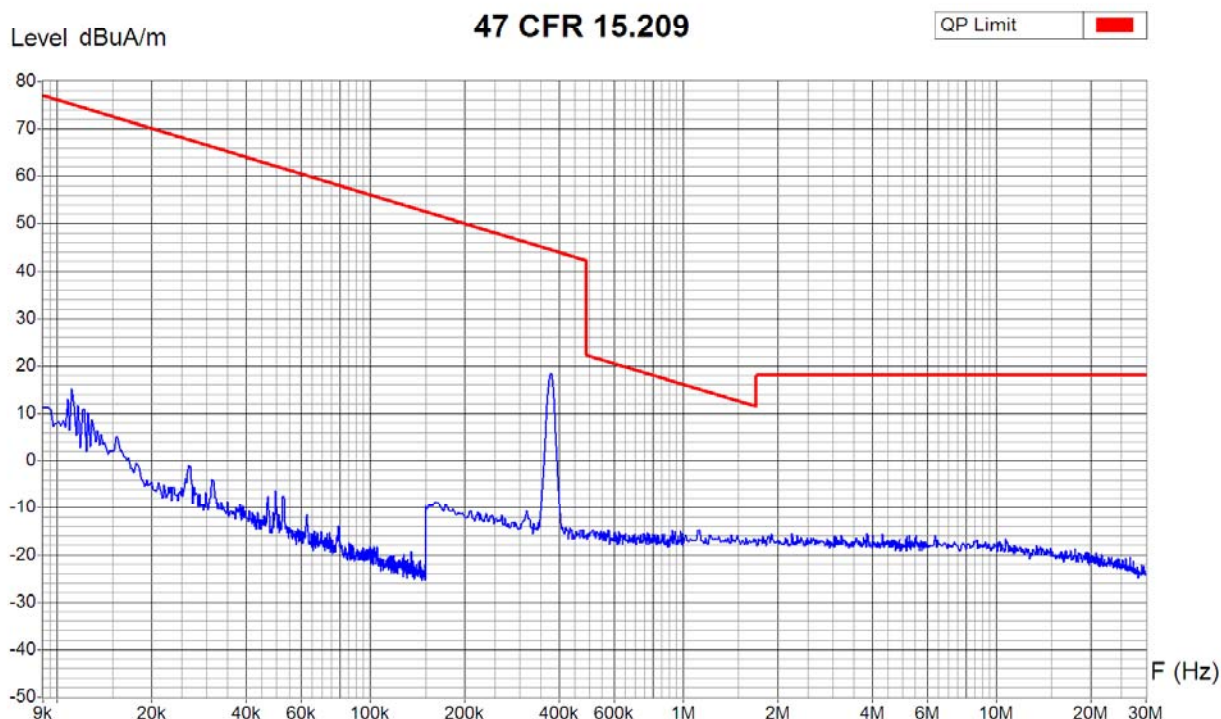
for $f = 30\text{MHz}$ the limit is 30 μ V/m at 30 m;
 $20 \log_{10} (30\mu\text{V/m}) - 20 \log_{10} (377 \Omega) + 40 \log_{10} (30\text{m}/3\text{m}) = 18 \text{ dB}\mu\text{A/m at } 3\text{m}$

Test equipment:

Spectrum analyser	☐ 88-14	☐ 90-26	☐ 94-24	☐ 02-06	☐ 03-45	☒ 03-57
Receiver	☐ 85-12	☐ 90-11	☐ 94-34	☐ 04-28	☐	
Preamplifier	☐ 90-01	☐ 95-86	☐ 05-56	☐ 05-59	☐ 05-62	☐ 05-87
Antenna (typ: magnetic)	☒ 90-25	☐ 90-28	☐ 99-32	☐		
.....						

Result:	☒ pass	☐ fail	☐ not applicable	☐ not tested
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Measurement Type : Radiated Field
 Polarisation : Perpendicular
 Table Angle : 0 - 360°
 Antenna Height : 1 m (center)
 Equipment Under Test : Profilo System
 Set-Up : see photo
 Operating Conditions : AM 375 kHz M = 40%
 Remarks : EUT upright



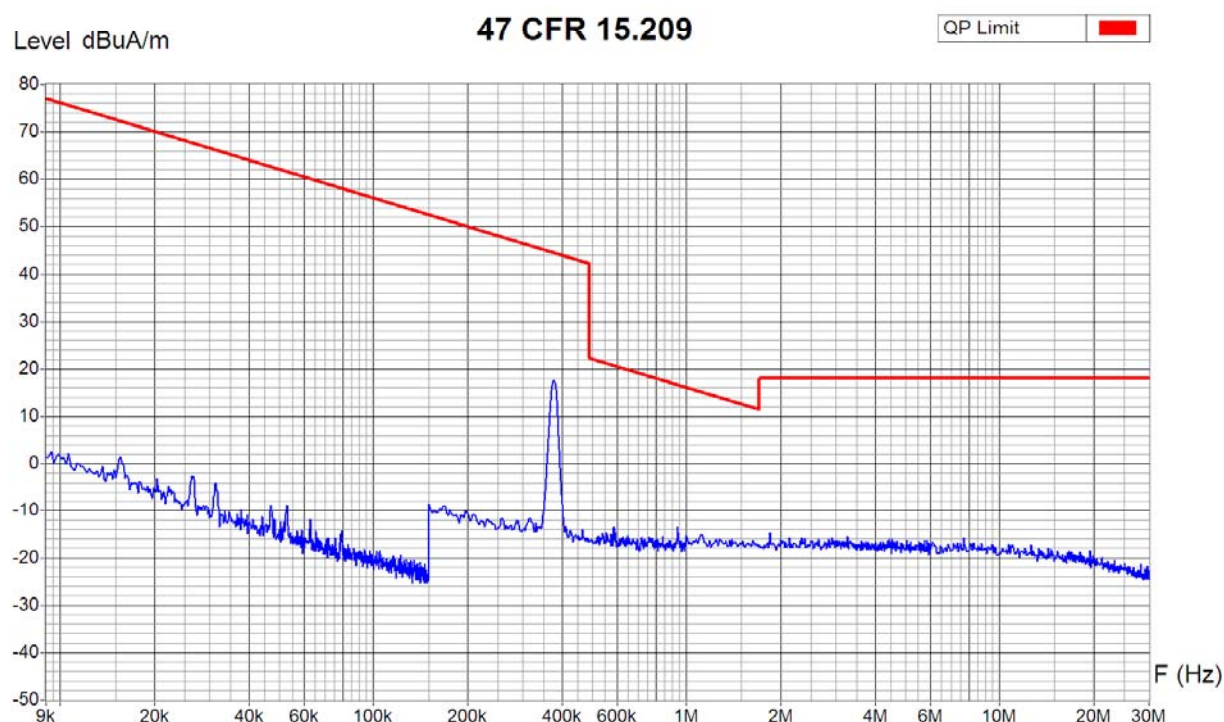
Zone	9 KHz - 80 KHz	150 KHz - 1 MHz	1 MHz - 6 MHz	6 MHz - 30 MHz	80 KHz - 150 KHz
Video Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz
Resol Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz

Operator: A. Trabold
 Date/Time: 02/08/06 15:03
 Filename:
 20067095_Phonak_Profilo_er_000
 per.png/.txt

Measurement Type : Radiated Field
Polarisation : Parallel
Table Angle : 0 - 360°
Antenna Height : 1 m (center)



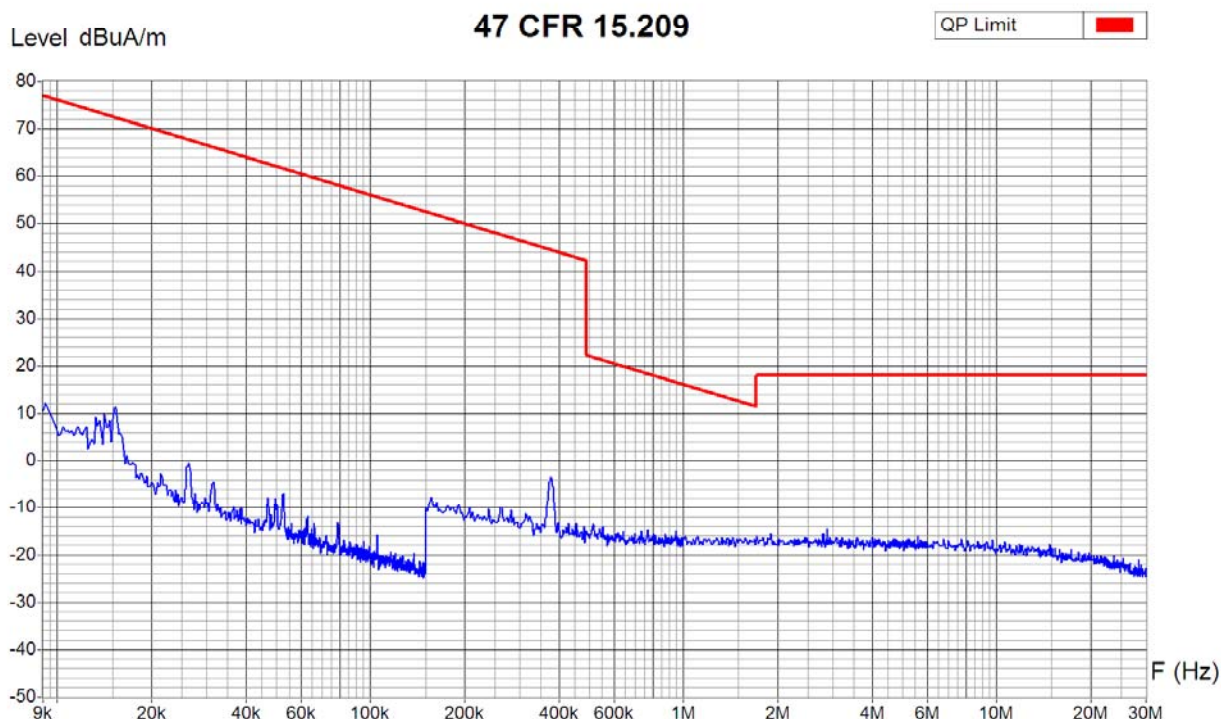
Equipment Under Test : Profilo System
Set-Up : see photo
Operating Conditions : AM 375 kHz M = 40%
Remarks : EUT upright



Zone	9 KHz - 80 KHz	150 KHz - 1 MHz	1 MHz - 6 MHz	6 MHz - 30 MHz	80 KHz - 150 KHz
Video Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz
Resol Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz

Operator: A. Trabold
Date/Time: 02/08/06 14:57
Filename:
20067095_Phonak_Profilo_er_000
par.png/.txt

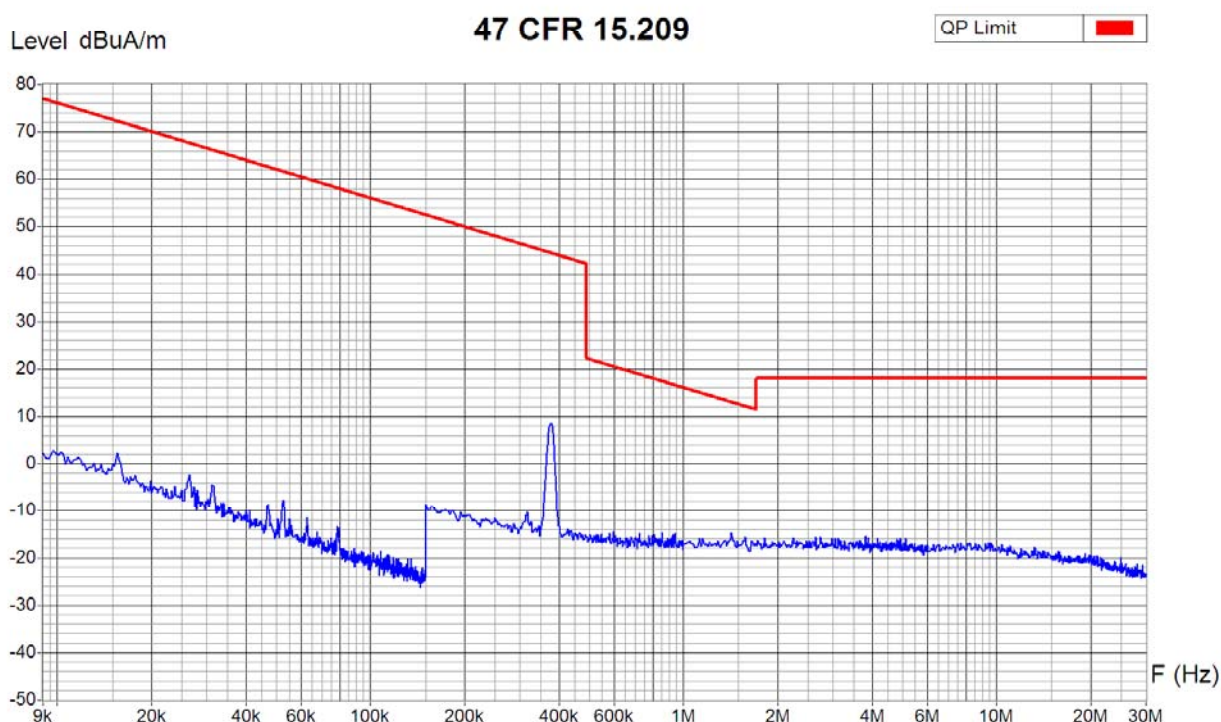
Measurement Type : Radiated Field
 Polarisation : Perpendicular
 Table Angle : 0 - 360°
 Antenna Height : 1 m (center)
 Equipment Under Test : Profilo System
 Set-Up : see photo
 Operating Conditions : AM 375 kHz M = 40%
 Remarks : EUT flat



Zone	9 KHz - 80 KHz	150 KHz - 1 MHz	1 MHz - 6 MHz	6 MHz - 30 MHz	80 KHz - 150 KHz
Video Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz
Resol Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz

Operator: A. Trabold
 Date/Time: 02/08/06 15:35
 Filename:
 20067095_Phonak_Profilo_er_001
 per.png/.txt

Measurement Type : Radiated Field
 Polarisation : Parallel
 Table Angle : 0 - 360°
 Antenna Height : 1 m (center)
 Equipment Under Test : Profilo System
 Set-Up : see photo
 Operating Conditions : AM 375 kHz M = 40%
 Remarks : EUT flat



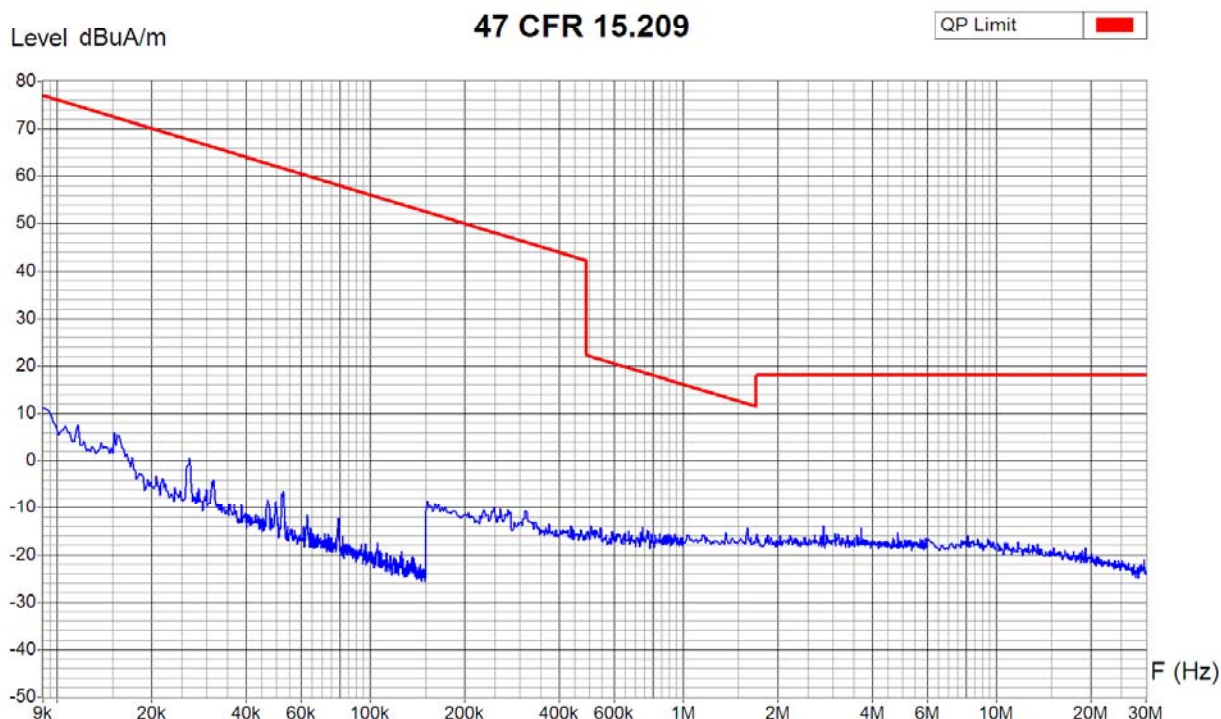
Zone	9 KHz - 80 KHz	150 KHz - 1 MHz	1 MHz - 6 MHz	6 MHz - 30 MHz	80 KHz - 150 KHz
Video Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz
Resol Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz

Operator: A. Trabold
 Date/Time: 02/08/06 15:28
 Filename:
 20067095_Phonak_Profilo_er_001
 par.png/.txt

Measurement Type : Radiated Field
Polarisation : Perpendicular
Table Angle : 0 - 360°
Antenna Height : 1 m (center)



Equipment Under Test : Profilo Receiver only
Set-Up : see photo
Operating Conditions : receiving
Remarks : EUT upright



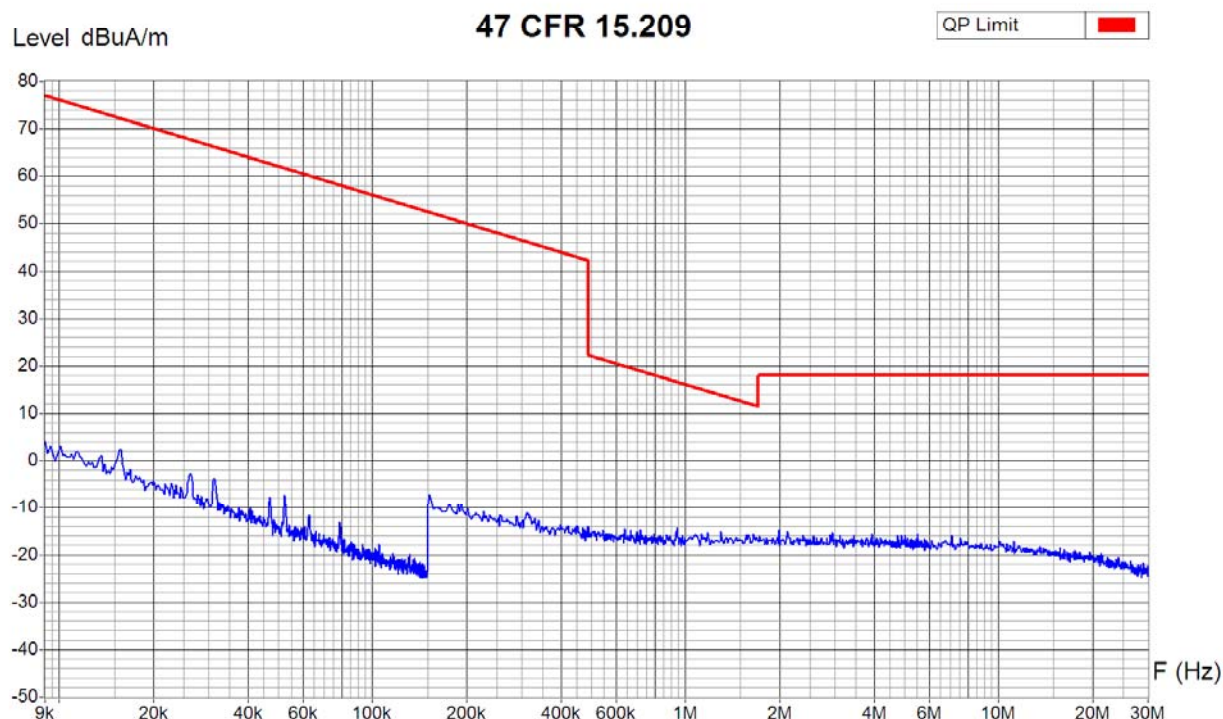
Zone	9 KHz - 80 KHz	150 KHz - 1 MHz	1 MHz - 6 MHz	6 MHz - 30 MHz	80 KHz - 150 KHz
Video Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz
Resol Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz

Operator: A. Trabold
Date/Time: 02/08/06 15:08
Filename:
20067095_Phonak_Profilo_er_050
per.png/.txt

Measurement Type : Radiated Field
Polarisation : Parallel
Table Angle : 0 - 360°
Antenna Height : 1 m (center)



Equipment Under Test : Profilo Receiver only
Set-Up : see photo
Operating Conditions : receiving
Remarks : EUT upright



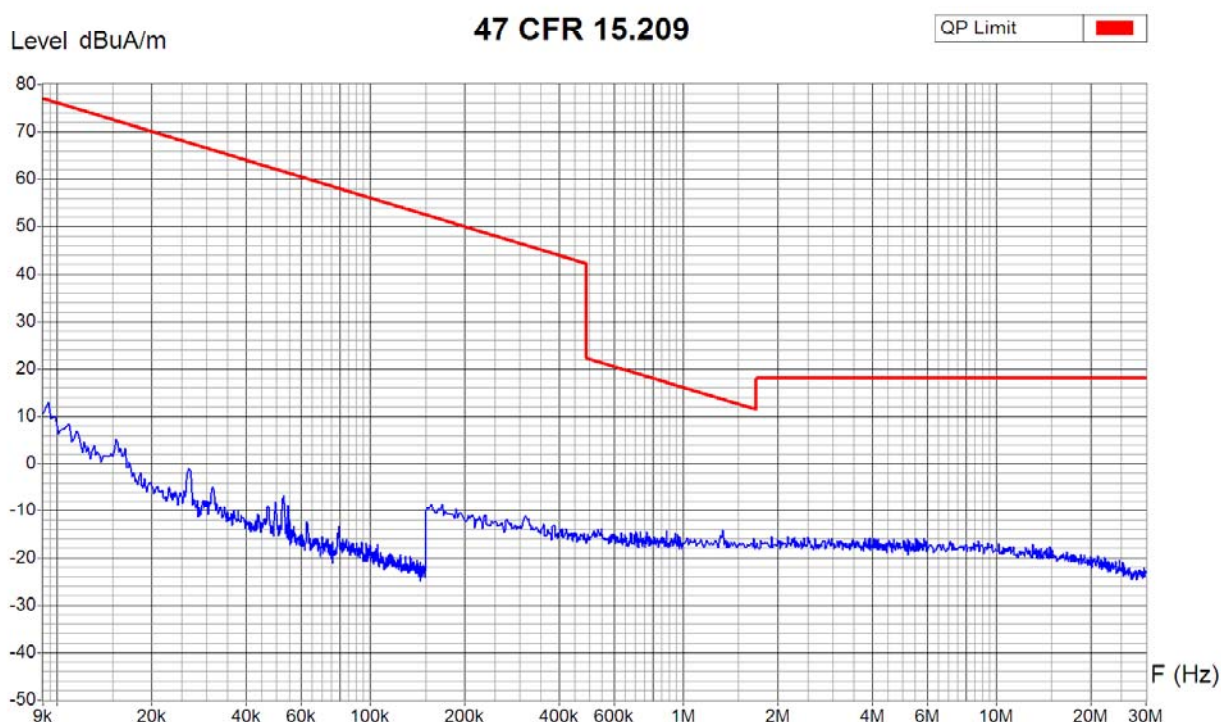
Zone	9 KHz - 80 KHz	150 KHz - 1 MHz	1 MHz - 6 MHz	6 MHz - 30 MHz	80 KHz - 150 KHz
Video Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz
Resol Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz

Operator: A. Trabold
Date/Time: 02/08/06 15:44
Filename:
20067095_Phonak_Profilo_er_050
par.png/.txt

Measurement Type : Radiated Field
Polarisation : Perpendicular
Table Angle : 0 - 360°
Antenna Height : 1 m (center)



Equipment Under Test : Profilo Receiver only
Set-Up : see photo
Operating Conditions : receiving
Remarks : EUT flat



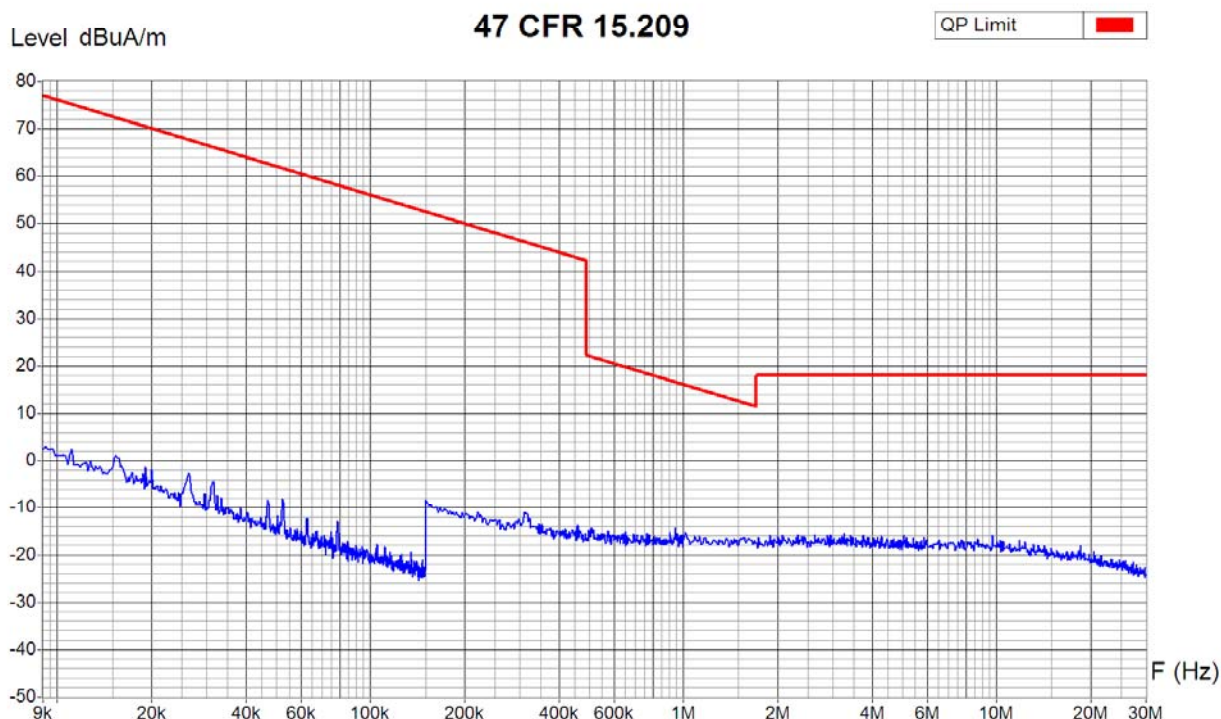
Zone	9 KHz - 80 KHz	150 KHz - 1 MHz	1 MHz - 6 MHz	6 MHz - 30 MHz	80 KHz - 150 KHz
Video Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz
Resol Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz

Operator: A. Trabold
Date/Time: 02/08/06 15:14
Filename:
20067095_Phonak_Profilo_er_051
per.png/.txt

Measurement Type : Radiated Field
Polarisation : Parallel
Table Angle : 0 - 360°
Antenna Height : 1 m (center)



Equipment Under Test : Profilo Receiver only
Set-Up : see photo
Operating Conditions : receiving
Remarks : EUT flat



Zone	9 KHz - 80 KHz	150 KHz - 1 MHz	1 MHz - 6 MHz	6 MHz - 30 MHz	80 KHz - 150 KHz
Video Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz
Resol Bandwidth	300 Hz	10 KHz	10 KHz	10 KHz	300 Hz

Operator: A. Trabold
Date/Time: 02/08/06 15:22
Filename:
20067095_Phonak_Profilo_er_051
par.png/.txt

6.2 Radiated electromagnetic field

Test site: ☐ anechoic chamber (foam) ☐ open test site
☒ anechoic chamber (ferrites) ☐

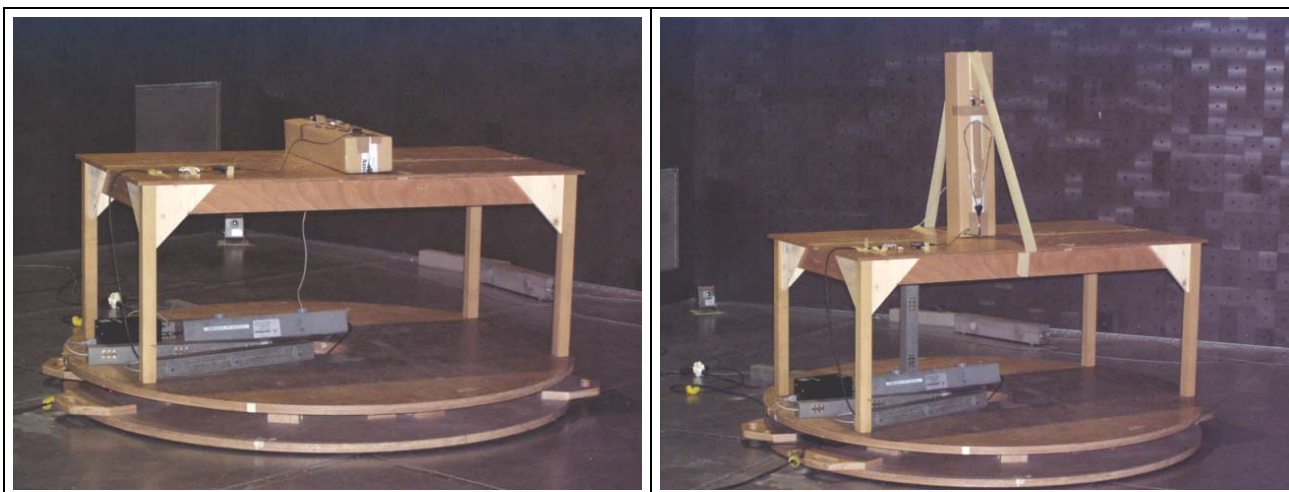
Distance: ☐ 30 m ☒ 10 m ☐ 3 m ☐

Position of EUT: 0.8 m (height of the equipment under test above floor)

Meas. uncertainty: ± 6 dB (30 - 300 MHz) / ± 5.4 dB (300 - 1000 MHz)

Test method: The electromagnetic disturbance radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is moved from 1 to 4 m in height successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measurements. The recordings are carried out taking into account the maximum value of all the disturbances appearing while the apparatus is under test. The peak values are recorded continuously on the graph. The values exceeding a limit are remeasured manually using a receiver.

Test set-up:



Remarks: ---

Test equipment:

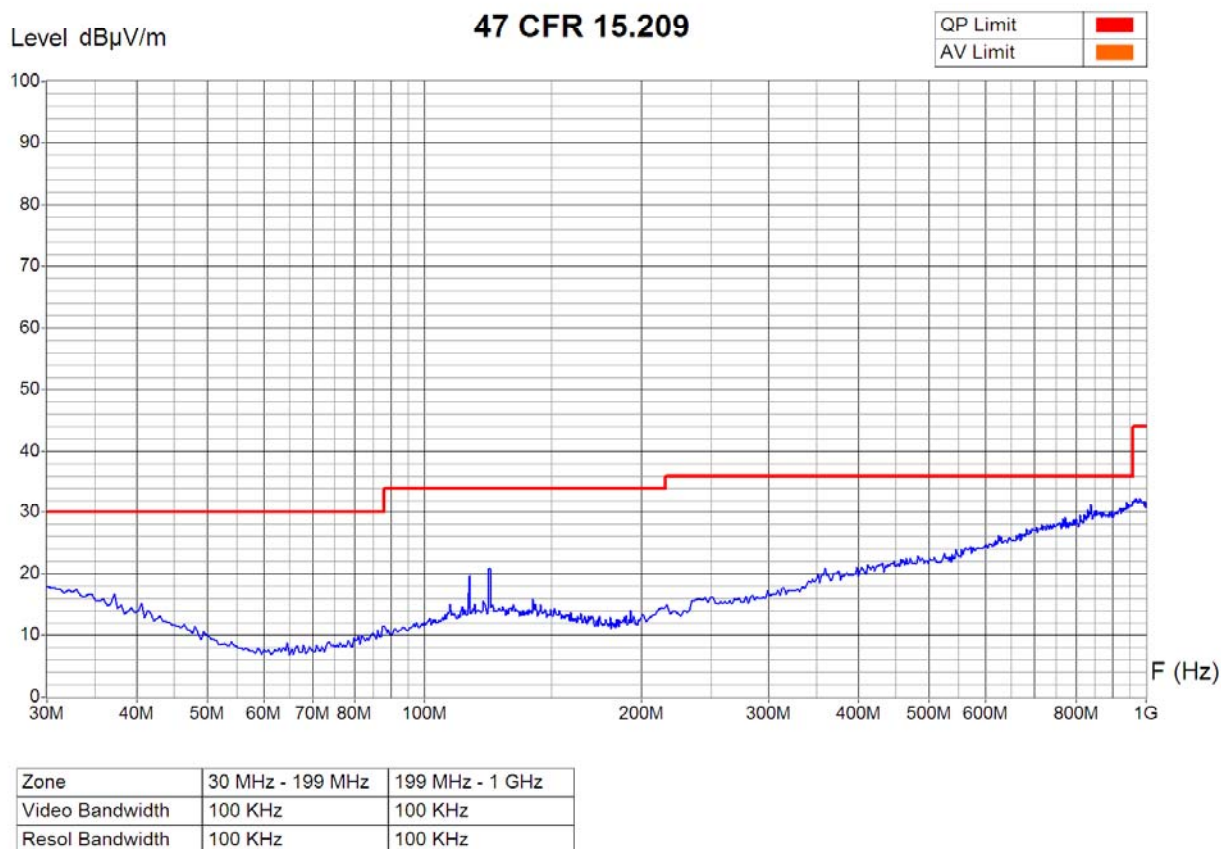
Spectrum analyser	☐ 88-14	☐ 90-26	☐ 94-24	☐ 02-06	☒ 03-45	☐ 03-57
Receiver	☐ 85-04	☐ 90-43	☒ 94-35			
Preamplifier	☐ 90-01	☐ 95-86	☐ 05-56	☒ 05-59	☐ 05-62	
Antenna (biconical)	☐ 82-02	☐ 87-05	☐ 87-16	☐ 91-05	☐ 94-37	
Antenna (log-per)	☐ 88-20	☐ 90-30	☐ 91-35	☐ 94-64		
Antenna (bilog)	☒ 94-03	☐ 05-38	☐			
Antenna (horn)	☐ 90-24	☐ 90-29	☐ 98-12	☐ 98-13	☐	
.....						

Result:	☒ pass	☐ fail	☐ not applicable	☐ not tested
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Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0° - 360°
Antenna Height : 1m - 4m



Equipment Under Test : Profilo System
Set-Up : see photo
Operating Conditions : AM 375 kHz M = 40%
Remarks : Receiver receiving, Transmitter sending
EUT flat

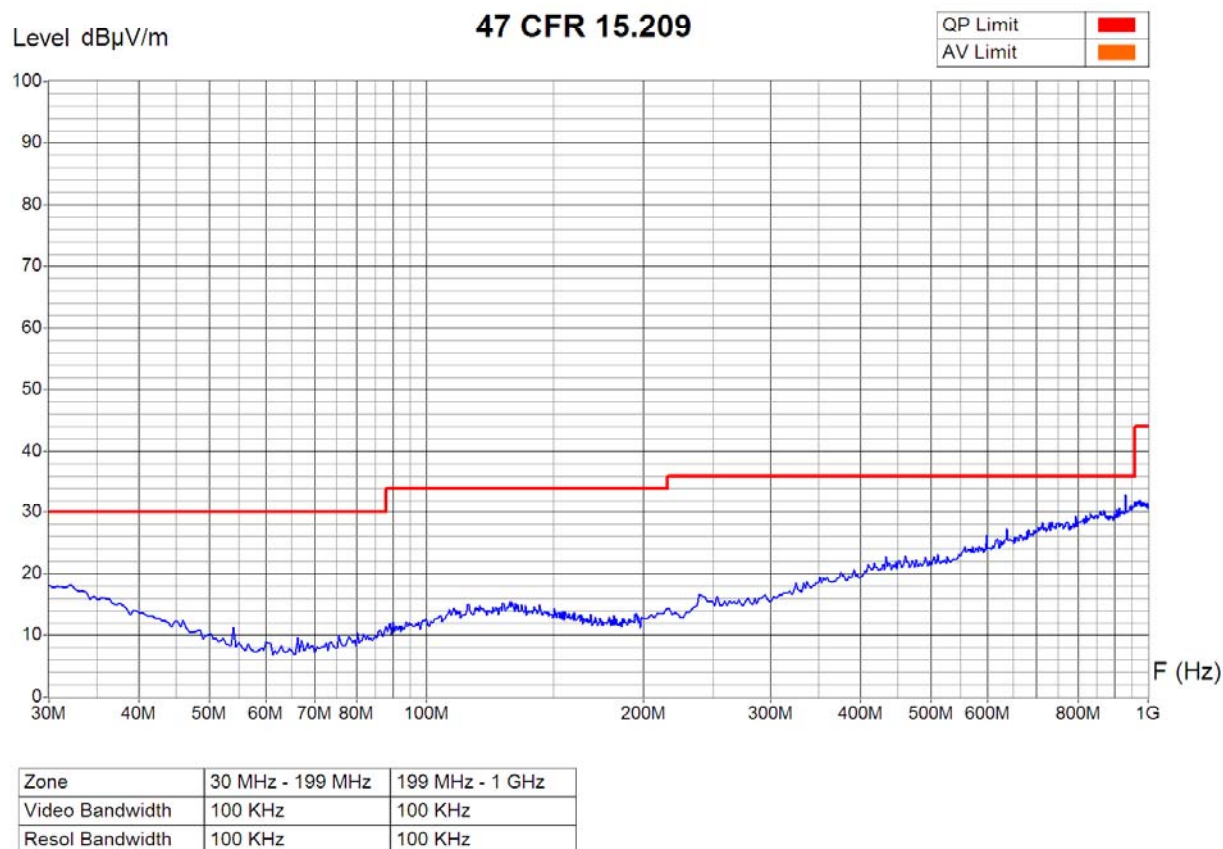


Operator: A. Trabold
Date/Time: 03.08.06 08:48
Filename:
20067095_Phonak_Profilo_er_100
h_fcc.png/.txt

Measurement Type : Radiated Field
 Polarisation : Vertical
 Table Angle : 0° - 360°
 Antenna Height : 1m - 4m



Equipment Under Test : Profilo System
 Set-Up : see photo
 Operating Conditions : AM 375 kHz M = 40%
 Remarks : Receiver receiving, Transmitter sending
 EUT flat

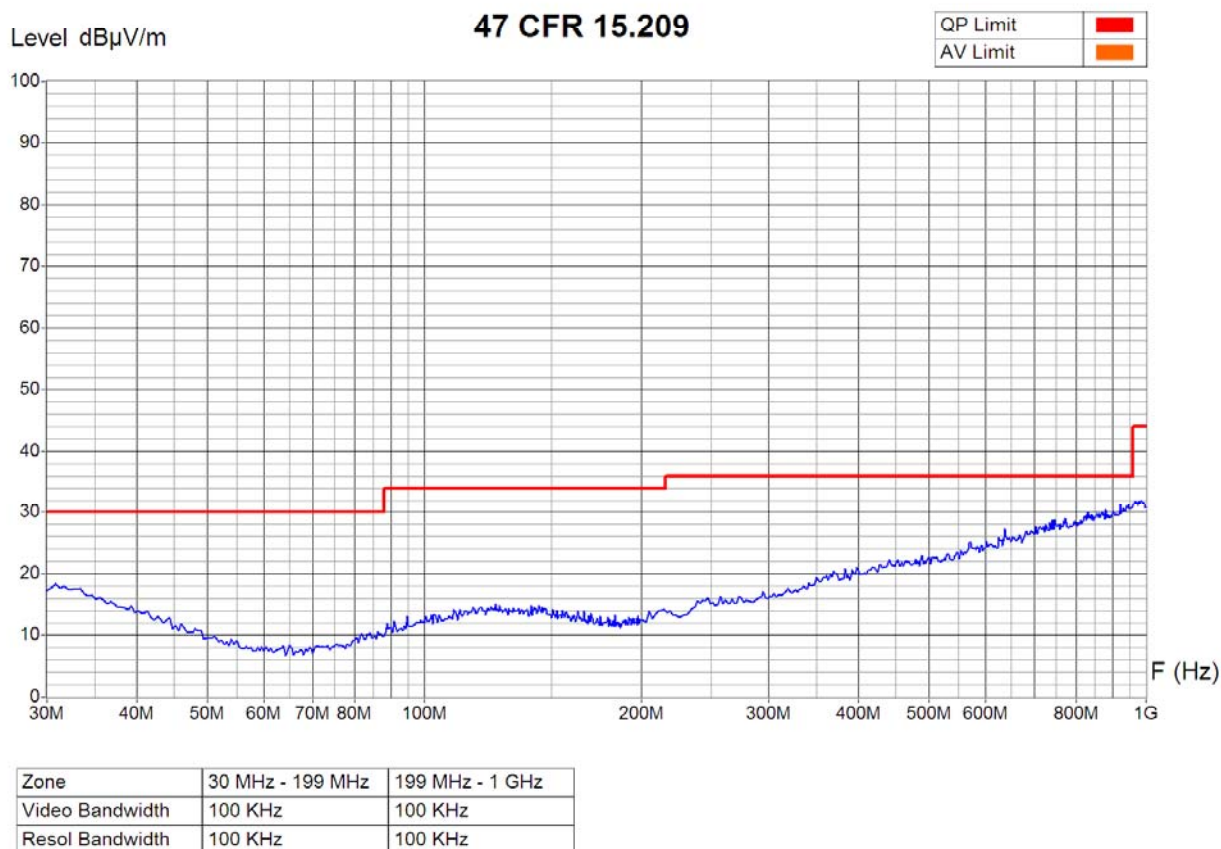


Operator: A. Trabold
 Date/Time: 03.08.06 08:35
 Filename:
 20067095_Phonak_Profilo_er_100
 v_fcc.png/.txt

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0° - 360°
Antenna Height : 1m - 4m



Equipment Under Test : Profilo System
Set-Up : see photo
Operating Conditions : Receiver receiving, Transmitter standby
Remarks : EUT flat

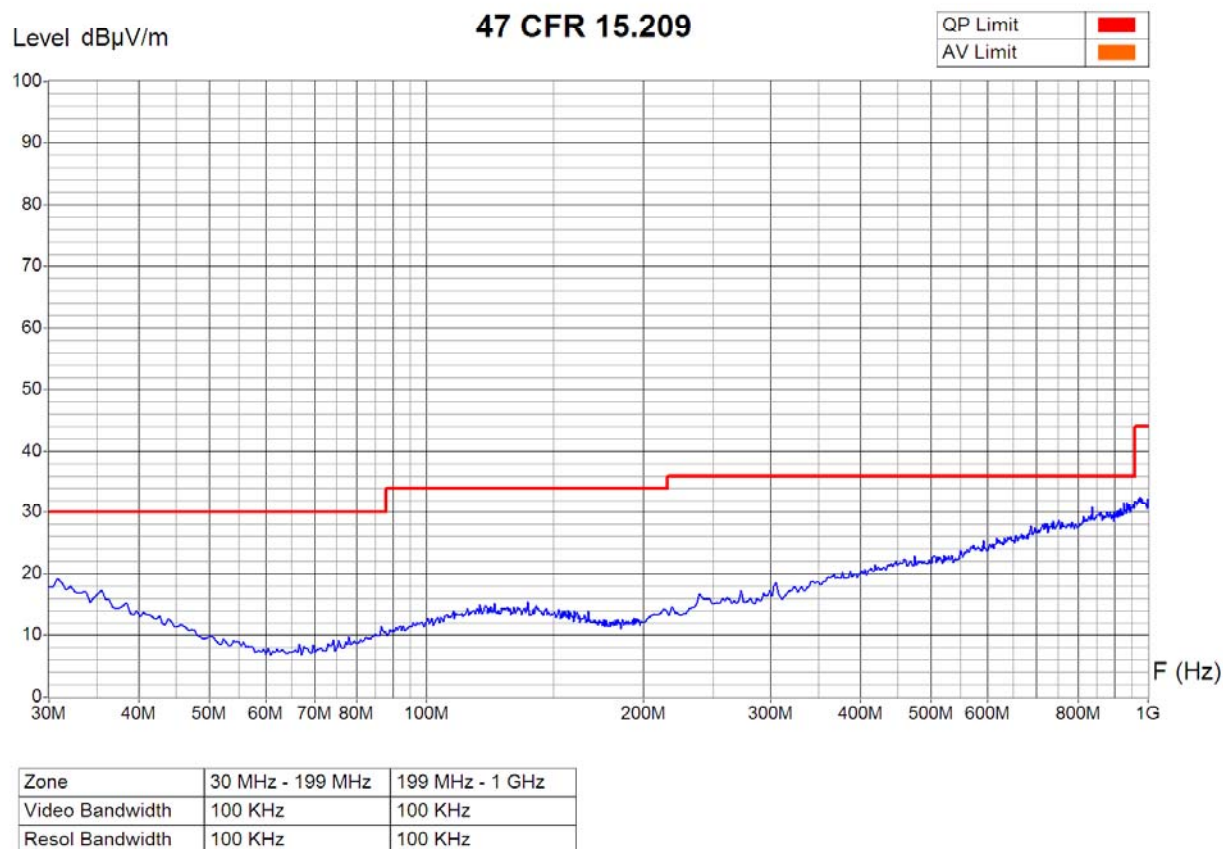


Operator: A. Trabold
Date/Time: 03.08.06 08:57
Filename:
20067095_Phonak_Profilo_er_101
v_fcc.png/.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0° - 360°
Antenna Height : 1m - 4m



Equipment Under Test : Profilo System
Set-Up : see photo
Operating Conditions : Receiver receiving, Transmitter standby
Remarks : EUT flat

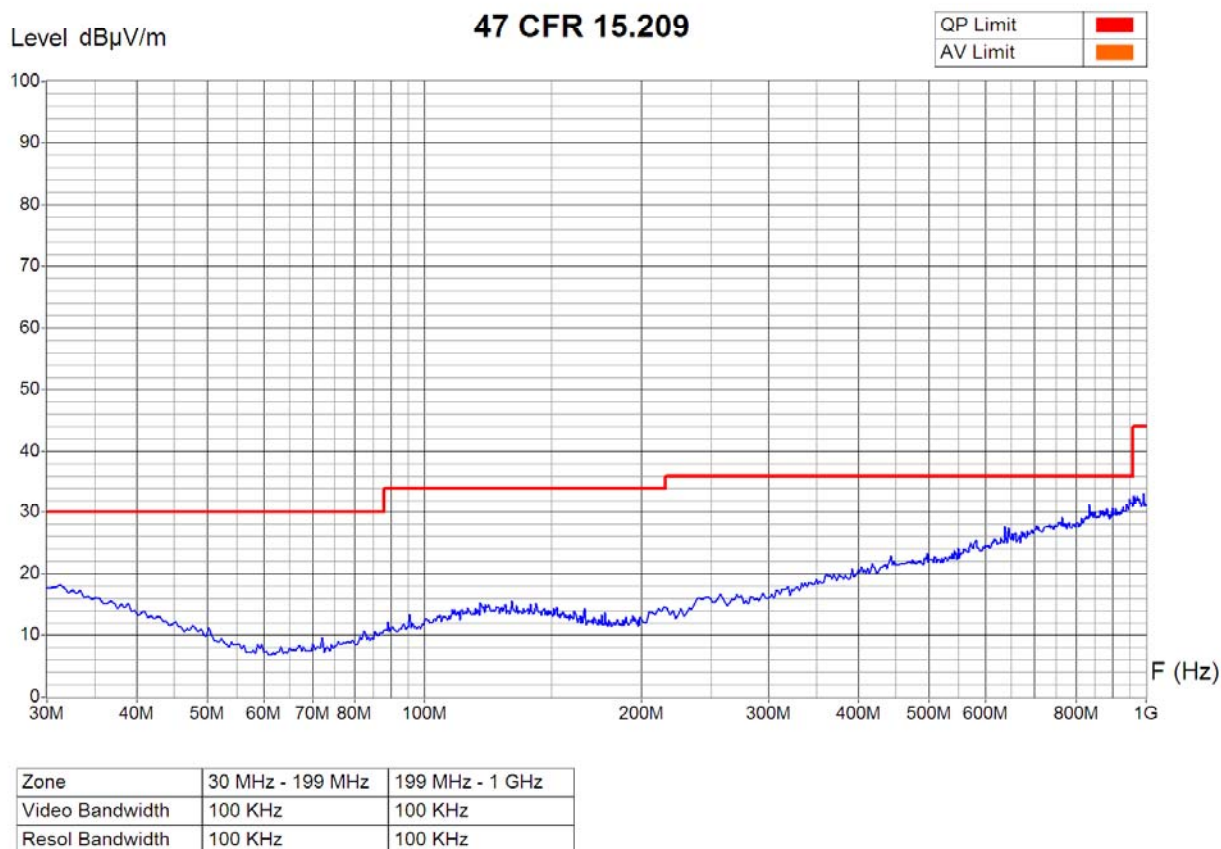


Operator: A. Trabold
Date/Time: 03.08.06 09:05
Filename:
20067095_Phonak_Profilo_er_101
h_fcc.png/.txt

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0° - 360°
Antenna Height : 1m - 4m



Equipment Under Test : Profilo System
Set-Up : see photo
Operating Conditions : Receiver receiving, Transmitter standby
Remarks : EUT upright

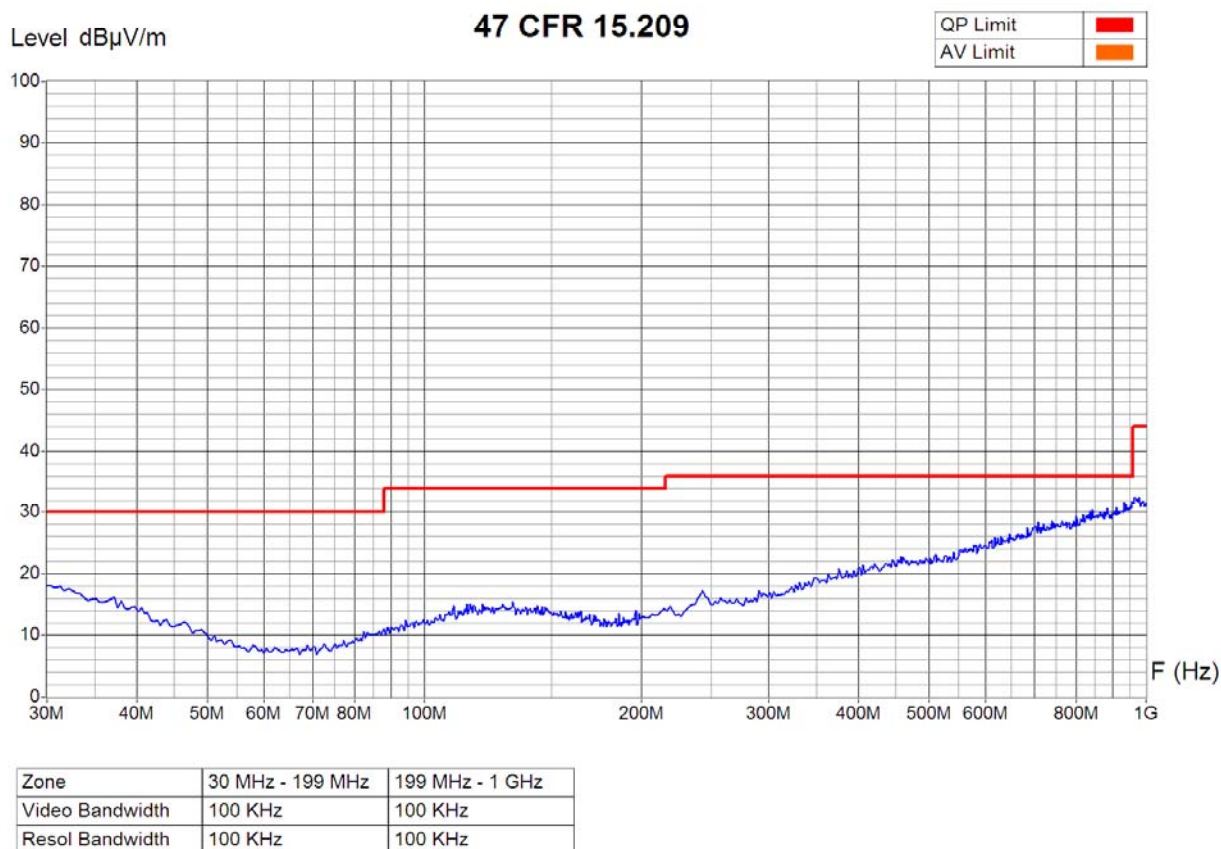


Operator: A. Trabold
Date/Time: 03.08.06 09:15
Filename:
20067095_Phonak_Profilo_er_102
v_fcc.png/.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0° - 360°
Antenna Height : 1m - 4m



Equipment Under Test : Profilo System
Set-Up : see photo
Operating Conditions : Receiver receiving, Transmitter standby
Remarks : EUT upright

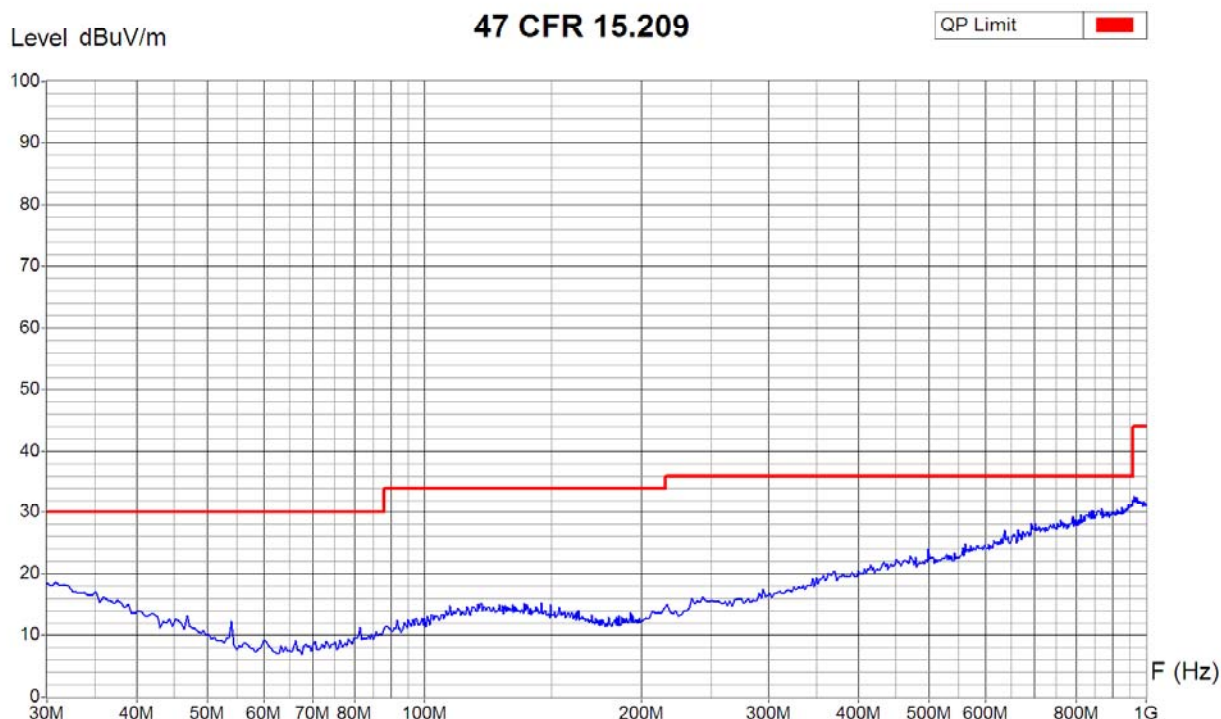


Operator: A. Trabold
Date/Time: 03.08.06 09:23
Filename:
20067095_Phonak_Profilo_er_102
h_fcc.png/.txt

Measurement Type : Radiated Field
 Polarisation : Vertical
 Table Angle : 0° - 360°
 Antenna Height : 1m - 4m



Equipment Under Test : Profilo System
 Set-Up : see photo
 Operating Conditions : Receiver receiving, Transmitter sending
 Remarks : EUT upright
 AM 375 kHz M = 40%



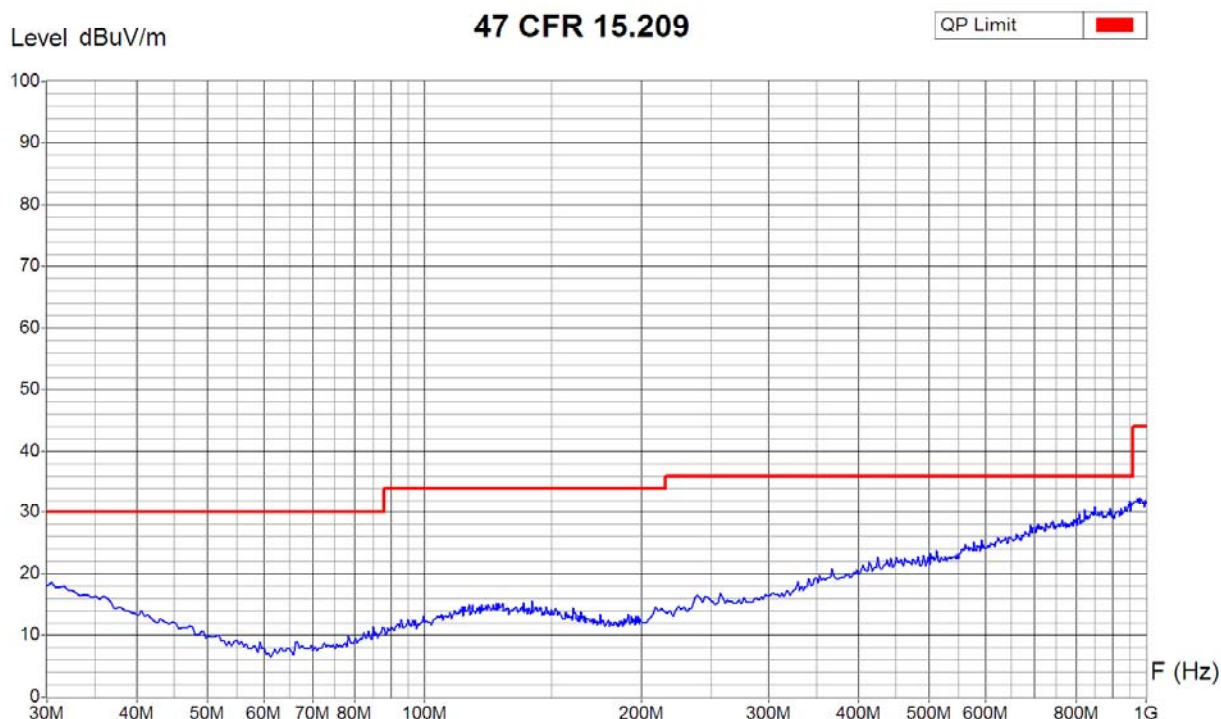
Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz

Operator: A. Trabold
 Date/Time: 03.08.06 09:31
 Filename:
 20067095_Phonak_Profilo_er_103
 v_fcc.png/.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0° - 360°
Antenna Height : 1m - 4m



Equipment Under Test : Profilo System
Set-Up : see photo
Operating Conditions : Receiver receiving, Transmitter sending
Remarks : EUT upright
AM 375 kHz M = 40%



Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz

Operator: A. Trabold
Date/Time: 03.08.06 09:39
Filename:
20067095_Phonak_Profilo_er_103
h_fcc.png/.txt